=> d his full

(FILE 'HOME' ENTERED AT 13:53:33 ON 12 OCT 2006)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:54:08 ON 12 OCT 2006
            SEA DDL? OR (ALANI?(S)LIGAS?)
            ———
      18   FILE ADISCTI
       1   FILE ADISINSIGHT
      30   FILE AGRICOLA
      13   FILE ANABSTR
       7   FILE ANTE
       2   FILE AQUALINE
       3   FILE AQUASCI
      51   FILE BIOENG
     654   FILE BIOSIS
      72   FILE BIOTECHABS
      72   FILE BIOTECHDS
     250   FILE BIOTECHNO
     105   FILE CABA
     715   FILE CAPLUS
      31   FILE CEABA-VTB
      16   FILE CIN
      17   FILE CONFSCI
      17   FILE CROPU
       6   FILE DDFB
      72   FILE DDFU
     594   FILE DGENE
      79   FILE DISSABS
       6   FILE DRUGB
       1   FILE DRUGMONOG2
     104   FILE DRUGU
      15   FILE EMBAL
     594   FILE EMBASE
     344   FILE ESBIOBASE
       6   FILE FROSTI
      13   FILE FSTA
    1795   FILE GENBANK
       5   FILE HEALSAFE
     258   FILE IFIPAT
       3   FILE IMSPRODUCT
       2   FILE IMSRESEARCH
      81   FILE JICST-EPLUS
     369   FILE LIFESCI
     588   FILE MEDLINE
      84   FILE NTIS
     608   FILE PASCAL
       3   FILE PHAR
       1   FILE PHARMAML
       7   FILE PHIN
     701   FILE PROMT
       1   FILE PROUSDDR
      10   FILE RDISCLOSURE
     808   FILE SCISEARCH
     321   FILE TOXCENTER
    2690   FILE USPATFULL
     308   FILE USPAT2
       1   FILE VETU
       5   FILE WATER
     185   FILE WPIDS
       1   FILE WPIFV
     185   FILE WPINDEX
      11   FILE IPA
     234   FILE NLDB
L1   QUE DDL? OR (ALANI?(S) LIGAS?)

D RANK

FILE 'USPATFULL, GENBANK, SCISEARCH, CAPLUS, PROMT, BIOSIS, PASCAL,
EMBASE, MEDLINE, LIFESCI' ENTERED AT 13:56:02 ON 12 OCT 2006
L2   9522 SEA DDL? OR (ALANI?(S) LIGAS?)
L3   501 SEA L2 AND (TUBERCULOS? OR SMEGMAT?)
L4   399 SEA L3 AND (VECTOR? OR PLASMID?)
L5   58 SEA L4 AND GPM?
L6   58 DUP REM L5 (0 DUPLICATES REMOVED)
       D TI L6 1-58
L7   172 SEA L1(S)(TUBERCULOS? OR SMEGMAT?)
L8   83 SEA L7 (S) (VECTOR? OR PLASMID?)
L9   17 SEA L8(S)(GPM?)
L10   17 DUP REM L9 (0 DUPLICATES REMOVED)
       D TI L10 1-17
L11   38 SEA L8 AND (GPM? OR PBUN?)
L12   38 DUP REM L11 (0 DUPLICATES REMOVED)
       D TI L12 1-38
       D IBIB ABS L12 1-13

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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

NEWS   1   Web Page URLs for STN Seminar Schedule - N. America
NEWS   2   "Ask CAS" for self-help around the clock
NEWS   3   FEB 27   New STN AnaVist pricing effective March 1, 2006
NEWS   4   MAY 10   CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS   5   MAY 11   KOREAPAT updates resume
NEWS   6   MAY 19   Derwent World Patents Index to be reloaded and enhanced
NEWS   7   MAY 30   IPC 8 Rolled-up Core codes added to CA/CAplus and
                     USPATFULL/USPAT2
NEWS   8   MAY 30   The F-Term thesaurus is now available in CA/CAplus
NEWS   9   JUN 02   The first reclassification of IPC codes now complete in
                     INPADOC
NEWS 10   JUN 26   TULSA/TULSA2 reloaded and enhanced with new search and
                     and display fields
NEWS 11   JUN 28   Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12   JUl 11   CHEMSAFE reloaded and enhanced
NEWS 13   JUl 14   FSTA enhanced with Japanese patents
NEWS 14   JUl 19   Coverage of Research Disclosure reinstated in DWPI
NEWS 15   AUG 09   INSPEC enhanced with 1898-1968 archive
NEWS 16   AUG 28   ADISCTI Reloaded and Enhanced
NEWS 17   AUG 30   CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18   SEP 11   CA/CAplus enhanced with more pre-1907 records
NEWS 19   SEP 21   CA/CAplus fields enhanced with simultaneous left and right
                     truncation
NEWS 20   SEP 25   CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 21   SEP 25   CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22   SEP 25   CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 23   SEP 28   CEABA-VTB classification code fields reloaded with new
                     classification scheme

NEWS EXPRESS   JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS LOGIN   Welcome Banner and News Items
NEWS IPC8   For general information regarding STN implementation of IPC 8
NEWS X25   X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

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FILE 'HOME' ENTERED AT 13:53:33 ON 12 OCT 2006

=> index bioscience medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                          SINCE FILE     TOTAL
                                                ENTRY      SESSION
FULL ESTIMATED COST                             0.21         0.21


INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
      AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
      CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
      DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:54:08 ON 12 OCT 2006

71 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s ddl4 or (alani4(s)ligas4)
4) IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s ddl? or (alani?(s)ligas?)
        18    FILE ADISCTI
         1    FILE ADISINSIGHT
        30    FILE AGRICOLA
        13    FILE ANABSTR
         7    FILE ANTE
         2    FILE AQUALINE
         3    FILE AQUASCI
        51    FILE BIOENG
       654    FILE BIOSIS
        72    FILE BIOTECHABS
        72    FILE BIOTECHDS
       250    FILE BIOTECHNO
       105    FILE CABA
       715    FILE CAPLUS
        31    FILE CEABA-VTB
        16    FILE CIN
        17    FILE CONFSCI
        17    FILE CROPU
  20 FILES SEARCHED...
         6    FILE DDFB
        72    FILE DDFU
       594    FILE DGENE
        79    FILE DISSABS
         6    FILE DRUGB
         1    FILE DRUGMONOG2
       104    FILE DRUGU
        15    FILE EMBAL
       594    FILE EMBASE
       344    FILE ESBIOBASE
         6    FILE FROSTI
        13    FILE FSTA
      1795    FILE GENBANK
         5    FILE HEALSAFE
       258    FILE IFIPAT
         3    FILE IMSPRODUCT
         2    FILE IMSRESEARCH
        81    FILE JICST-EPLUS
       369    FILE LIFESCI
       588    FILE MEDLINE
        84    FILE NTIS
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     608    FILE PASCAL
       3    FILE PHAR
       1    FILE PHARMAML
       7    FILE PHIN
     701    FILE PROMT
 54 FILES SEARCHED...
       1    FILE PROUSDDR
      10    FILE RDISCLOSURE
     808    FILE SCISEARCH
     321    FILE TOXCENTER
    2690    FILE USPATFULL
     308    FILE USPAT2
       1    FILE VETU
       5    FILE WATER
     185    FILE WPIDS
       1    FILE WPIFV
     185    FILE WPINDEX
      11    FILE IPA
     234    FILE NLDB


   57 FILES HAVE ONE OR MORE ANSWERS,    71 FILES SEARCHED IN STNINDEX

L1   QUE DDL? OR (ALANI?(S) LIGAS?)

=> d rank
F1      2690    USPATFULL
F2      1795    GENBANK
F3       808    SCISEARCH
F4       715    CAPLUS
F5       701    PROMT
F6       654    BIOSIS
F7       608    PASCAL
F8       594    DGENE
F9       594    EMBASE
F10      588    MEDLINE
F11      369    LIFESCI
F12      344    ESBIOBASE
F13      321    TOXCENTER
F14      308    USPAT2
F15      258    IFIPAT
F16      250    BIOTECHNO
F17      234    NLDB
F18      185    WPIDS
F19      185    WPINDEX
F20      105    CABA
F21      104    DRUGU
F22       84    NTIS
F23       81    JICST-EPLUS
F24       79    DISSABS
F25       72    BIOTECHABS
F26       72    BIOTECHDS
F27       72    DDFU
F28       51    BIOENG
F29       31    CEABA-VTB
F30       30    AGRICOLA
F31       18    ADISCTI
F32       17    CONFSCI
F33       17    CROPU
F34       16    CIN
F35       15    EMBAL
F36       13    ANABSTR
F37       13    FSTA
F38       11    IPA
F39       10    RDISCLOSURE
F40        7    ANTE
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F41        7    PHIN
F42        6    DDFB
F43        6    DRUGB
F44        6    FROSTI
F45        5    HEALSAFE
F46        5    WATER
F47        3    AQUASCI
F48        3    IMSPRODUCT
F49        3    PHAR
F50        2    AQUALINE
F51        2    IMSRESEARCH
F52        1    ADISINSIGHT
F53        1    DRUGMONOG2
F54        1    PHARMAML
F55        1    PROUSDDR
F56        1    VETU
F57        1    WPIFV
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=> file f1-f7, f9-f11
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                             1.83          2.04
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=> s ddl? or (alani?(s)ligas?)
L2        9522 DDL? OR (ALANI?(S) LIGAS?)

=> s l2 and (tuberculos? or smegmat?)
L3         501 L2 AND (TUBERCULOS? OR SMEGMAT?)

=> s l3 and (vector? or plasmid?)
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L4   399 L3 AND (VECTOR? OR PLASMID?)

=> s 14 and gpm?
L5   58 L4 AND GPM?

=> dup rem 15
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L5
L6   58 DUP REM L5 (0 DUPLICATES REMOVED)

=> d ti 16 1-58

L6   ANSWER 1 OF 58 USPATFULL on STN
TI   Novel polynucleotides

L6   ANSWER 2 OF 58 USPATFULL on STN
TI   Hollow fiber technique for in vivo study of cell populations

L6   ANSWER 3 OF 58 USPATFULL on STN
TI   Microorganisms for therapy

L6   ANSWER 4 OF 58 USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Staphylococcus
       epidermidis for diagnostics and therapeutics

L6   ANSWER 5 OF 58 USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Enterobacter cloacae
       for diagnostics and therapeutics

L6   ANSWER 6 OF 58 USPATFULL on STN
TI   Methods and materials relating to novel polypeptides and polynucleotides

L6   ANSWER 7 OF 58 USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to streptococcus
       pneumoniae for diagnostics and therapeutics

L6   ANSWER 8 OF 58 USPATFULL on STN
TI   Microorganisms for therapy

L6   ANSWER 9 OF 58 USPATFULL on STN
TI   Recombinant mycobacteria overexpressing D-alanine
       ligase gene and uses therefore

L6   ANSWER 10 OF 58 USPATFULL on STN
TI   Therapeutic agents useful for treating pain

L6   ANSWER 11 OF 58 USPATFULL on STN
TI   Therapeutic agents useful for treating pain

L6   ANSWER 12 OF 58 USPATFULL on STN
TI   Novel nucleic acids and polypeptides

L6   ANSWER 13 OF 58 USPATFULL on STN
TI   Novel nucleic acids and polypeptides

L6   ANSWER 14 OF 58 USPATFULL on STN
TI   Streptococcus pneumoniae polynucleotides and sequences

L6   ANSWER 15 OF 58 USPATFULL on STN
TI   Methods of diagnosis of breast cancer, compositions and methods of
       screening for modulators of breast cancer

L6   ANSWER 16 OF 58 USPATFULL on STN
TI   Novel human polynucleotides and polypeptides encoded thereby

L6   ANSWER 17 OF 58   USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Streptococcus
      pneumoniae for diagnostics and therapeutics

L6   ANSWER 18 OF 58   USPATFULL on STN
TI   Nucleic acid sequences relating to Candida albicans for diagnostics and
      therapeutics.

L6   ANSWER 19 OF 58   USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Enterococcus faecalis
      for diagnostics and therapeutics

L6   ANSWER 20 OF 58   USPATFULL on STN
TI   Nucleic acid sequences and expression system relating to Enterococcus
      faecium for diagnostics and therapeutics

L6   ANSWER 21 OF 58   USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Acinetobacter
      baumannii for diagnostics and therapeutics

L6   ANSWER 22 OF 58   MEDLINE on STN
TI   Roles of Mycobacterium smegmatis D-alanine:D-
     alanine ligase and D-alanine racemase in the
     mechanisms of action of and resistance to the peptidoglycan inhibitor
     D-cycloserine.

L6   ANSWER 23 OF 58   USPATFULL on STN
TI   Novel Polynucleotides

L6   ANSWER 24 OF 58   USPATFULL on STN
TI   ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

L6   ANSWER 25 OF 58   USPATFULL on STN
TI   ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

L6   ANSWER 26 OF 58   USPATFULL on STN
TI   STREPTOCOCCUS PNEUMONIAE POLYNUCLEOTIDES AND SEQUENCES

L6   ANSWER 27 OF 58   GENBANK® COPYRIGHT 2006 on STN

     TITLE (TI):   Comparison of the genome sequence of the poultry
                          pathogen Bordetella avium with those of B.
                          bronchiseptica, B. pertussis, and B. parapertussis
                          reveals extensive diversity in surface structures
                          associated with host interaction
     TITLE (TI):   Direct Submission

L6   ANSWER 28 OF 58   GENBANK® COPYRIGHT 2006 on STN

     TITLE (TI):   The genome of Rhizobium leguminosarum has recognizable
                          core and accessory components
     TITLE (TI):   Direct Submission

L6   ANSWER 29 OF 58   GENBANK® COPYRIGHT 2006 on STN

     TITLE (TI):   The complete genome sequence of the European
                          Francisella tularensis subspecies tularensis isolate
                          FSC 198 suggests that it is derived from the archetypal
                          laboratory strain Schu S4, originally isolated in North
                          America
     TITLE (TI):   Direct Submission

L6   ANSWER 30 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Complete sequence of chromosome of Mycobacterium sp. MCS

TITLE (TI):   Direct Submission

L6   ANSWER 31 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   The partitioned Rhizobium etli genome: Genetic and metabolic redundancy in seven interacting replicons

TITLE (TI):   Direct Submission

L6   ANSWER 32 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   The partitioned Rhizobium etli genome: Genetic and metabolic redundancy in seven interacting replicons

TITLE (TI):   Direct Submission

L6   ANSWER 33 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Complete Sequence of Chromosome 1 of Rhodobacter sphaeroides 2.4.1

TITLE (TI):   Direct Submission

L6   ANSWER 34 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   The Chlamydophila abortus genome sequence reveals an array of variable proteins that contribute to interspecies variation

TITLE (TI):   The Chlamydophila abortus genome sequence reveals an array of variable proteins that contribute to interspecies variation

TITLE (TI):   Direct Submission

L6   ANSWER 35 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Extensive DNA inversions in the B. fragilis genome control variable gene expression

TITLE (TI):   Direct Submission

L6   ANSWER 36 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   The genome of the heartwater agent Ehrlichia ruminantium contains multiple tandem repeats of actively variable copy number

TITLE (TI):   Direct Submission

L6   ANSWER 37 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   The complete genome sequence of Francisella tularensis, the causative agent of tularemia

TITLE (TI):   Direct Submission

L6   ANSWER 38 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Complete genome sequence of Yersinia pestis strain 91001, an isolate avirulent to humans

TITLE (TI):   Genetics of metabolic variations between Yersinia pestis biovars and the proposal of a new biovar, microtus

TITLE (TI):   Direct Submission

L6   ANSWER 39 OF 58   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Extensive mosaic structure revealed by the complete genome sequence of uropathogenic Escherichia coli

TITLE (TI):   Direct Submission

TITLE (TI):   The genome sequence of Bifidobacterium longum reflects
                       its adaptation to the human gastrointestinal tract
TITLE (TI):   Direct Submission
TITLE (TI):   Direct Submission

TITLE (TI):   Genome sequence of Streptococcus mutans UA159, a
                       cariogenic dental pathogen
TITLE (TI):   Direct Submission

TITLE (TI):   Genome Sequence of Yersinia pestis KIM
TITLE (TI):   Direct Submission

TITLE (TI):   Genome sequence of Yersinia pestis, the causative agent
                       of plague
TITLE (TI):   Annotation and evolutionary relationships of a small
                       regulatory RNA gene micF and its target ompF in
                       Yersinia species
TITLE (TI):   Direct Submission

TITLE (TI):   The genome sequence of the food-borne pathogen
                       Campylobacter jejuni reveals hypervariable sequences
TITLE (TI):   Re-annotation of Campylobacter jejuni NCTC11168
TITLE (TI):   Direct Submission
TITLE (TI):   Direct Submission

TITLE (TI):   Complete genome sequence of Clostridium perfringens, an
                       anaerobic flesh-eater
TITLE (TI):   Direct Submission

TITLE (TI):   Complete nucleotide sequence of the prophage VT2-Sakai
                       carrying the verotoxin 2 genes of the enterohemorrhagic
                       Escherichia coli O157:H7 derived from the Sakai
                       outbreak
TITLE (TI):   Comparative analysis of the whole set of rRNA operons
                       between an enterohemorrhagic Escherichia coli O157:H7
                       Sakai strain and an Escherichia coli K-12 strain MG1655
TITLE (TI):   Complete nucleotide sequence of the prophage VT1-Sakai
                       carrying the Shiga toxin 1 genes of the
                       enterohemorrhagic Escherichia coli O157:H7 strain
                       derived from the Sakai outbreak
TITLE (TI):   Complete genome sequence of enterohemorrhagic
                       Escherichia coli O157:H7 and genomic comparison with a
                       laboratory strain K-12
TITLE (TI):   Direct Submission

TITLE (TI):   Genomic plasticity of the causative agent of
                       melioidosis, Burkholderia pseudomallei
TITLE (TI):   Direct Submission

L6   ANSWER 48 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Insights into the evolution of Yersinia pestis through
                           whole-genome comparison with Yersinia
                           pseudotuberculosis
    TITLE (TI):   Direct Submission

L6   ANSWER 49 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   The genome sequence of the enterobacterial
                           phytopathogen Erwinia carotovora subsp. atroseptica
                           SCRI1043 and functional genomic identification of novel
                           virulence factors
    TITLE (TI):   Direct Submission

L6   ANSWER 50 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete genomes of two clinical Staphylococcus aureus
                           strains: evidence for the rapid evolution of virulence
                           and drug resistance
    TITLE (TI):   Direct Submission

L6   ANSWER 51 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Deciphering the biology of Mycobacterium
                           tuberculosis from the complete genome sequence
    TITLE (TI):   Re-annotation of the genome sequence of Mycobacterium
                           tuberculosis H37Rv
    TITLE (TI):   Direct Submission

L6   ANSWER 52 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   The complete genome sequence and analysis of
                           Corynebacterium diphtheriae NCTC13129
    TITLE (TI):   Direct Submission

L6   ANSWER 53 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Comparative analysis of the genome sequences of
                           Bordetella pertussis, Bordetella parapertussis and
                           Bordetella bronchiseptica
    TITLE (TI):   Direct Submission

L6   ANSWER 54 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   The complete genome sequence of Mycobacterium bovis
    TITLE (TI):   Direct Submission

L6   ANSWER 55 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Genome Sequence and Comparative Analysis of the
                           Solvent-Producing Bacterium Clostridium acetobutylicum
    TITLE (TI):   Direct Submission

L6   ANSWER 56 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete genome sequence of the model actinomycete
                           Streptomyces coelicolor A3(2)
    TITLE (TI):   Direct Submission

L6   ANSWER 57 OF 58   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete genome sequence of the model actinomycete
                           Streptomyces coelicolor A3(2)

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      TITLE (TI):              Direct Submission

L6    ANSWER 58 OF 58         GENBANK®  COPYRIGHT 2006 on STN

      TITLE (TI):              Genome sequence of enterohaemorrhagic Escherichia coli
                               O157:H7
      TITLE (TI):              Direct Submission


=> s l1(s)(TUBERCULOS? OR SMEGMAT?)
L7         172 L1(S)(TUBERCULOS? OR SMEGMAT?)

=> s l7 (s) (vector? or plasmid?)
L8          83 L7 (S) (VECTOR? OR PLASMID?)

=> s l8(s)(gpm?)
L9          17 L8(S)(GPM?)

=> dup rem l9
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L9
L10             17 DUP REM L9 (0 DUPLICATES REMOVED)

=> d ti l10 1-17

L10   ANSWER 1 OF 17  USPATFULL on STN
TI      Recombinant mycobacteria overexpressing D-alanine ligase gene and uses
      · therefore

L10   ANSWER 2 OF 17  USPATFULL on STN
TI      Streptococcus pneumoniae polynucleotides and sequences

L10   ANSWER 3 OF 17  USPATFULL on STN
TI      Nucleic acid and amino acid sequences relating to Streptococcus
      pneumoniae for diagnostics and therapeutics

L10   ANSWER 4 OF 17  USPATFULL on STN
TI      STREPTOCOCCUS PNEUMONIAE POLYNUCLEOTIDES AND SEQUENCES

L10   ANSWER 5 OF 17         GENBANK®  COPYRIGHT 2006 on STN

      TITLE (TI):              The complete genome sequence of the European
                               Francisella tularensis subspecies tularensis isolate
                               FSC 198 suggests that it is derived from the archetypal
                               laboratory strain Schu S4, originally isolated in North
                               America
      TITLE (TI):              Direct Submission

L10   ANSWER 6 OF 17         GENBANK®  COPYRIGHT 2006 on STN

      TITLE (TI):              Complete sequence of chromosome of Mycobacterium sp.
                               MCS
      TITLE (TI):              Direct Submission

L10   ANSWER 7 OF 17         GENBANK®  COPYRIGHT 2006 on STN

      TITLE (TI):              The partitioned Rhizobium etli genome: Genetic and
                               metabolic redundancy in seven interacting replicons
      TITLE (TI):              Direct Submission

L10   ANSWER 8 OF 17         GENBANK®  COPYRIGHT 2006 on STN

      TITLE (TI):              The Chlamydophila abortus genome sequence reveals an
                               array of variable proteins that contribute to
```

TITLE (TI):   The Chlamydophila abortus genome sequence reveals an
                     array of variable proteins that contribute to
                     interspecies variation
TITLE (TI):   Direct Submission

L10 ANSWER 9 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Extensive DNA inversions in the B. fragilis genome
                     control variable gene expression
TITLE (TI):   Direct Submission

L10 ANSWER 10 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Complete genome sequence of Yersinia pestis strain
                     91001, an isolate avirulent to humans
TITLE (TI):   Genetics of metabolic variations between Yersinia
                     pestis biovars and the proposal of a new biovar,
                     microtus
TITLE (TI):   Direct Submission

L10 ANSWER 11 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Genome sequence of Streptococcus mutans UA159, a
                     cariogenic dental pathogen
TITLE (TI):   Direct Submission

L10 ANSWER 12 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Genome sequence of Yersinia pestis, the causative agent
                     of plague
TITLE (TI):   Annotation and evolutionary relationships of a small
                     regulatory RNA gene micF and its target ompF in
                     Yersinia species
TITLE (TI):   Direct Submission

L10 ANSWER 13 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Complete nucleotide sequence of the prophage VT2-Sakai
                     carrying the verotoxin 2 genes of the enterohemorrhagic
                     Escherichia coli O157:H7 derived from the Sakai
                     outbreak
TITLE (TI):   Comparative analysis of the whole set of rRNA operons
                     between an enterohemorrhagic Escherichia coli O157:H7
                     Sakai strain and an Escherichia coli K-12 strain MG1655
TITLE (TI):   Complete nucleotide sequence of the prophage VT1-Sakai
                     carrying the Shiga toxin 1 genes of the
                     enterohemorrhagic Escherichia coli O157:H7 strain
                     derived from the Sakai outbreak
TITLE (TI):   Complete genome sequence of enterohemorrhagic
                     Escherichia coli O157:H7 and genomic comparison with a
                     laboratory strain K-12
TITLE (TI):   Direct Submission

L10 ANSWER 14 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Genomic plasticity of the causative agent of
                     melioidosis, Burkholderia pseudomallei
TITLE (TI):   Direct Submission

L10 ANSWER 15 OF 17   GENBANK® COPYRIGHT 2006 on STN

TITLE (TI):   Insights into the evolution of Yersinia pestis through
                     whole-genome comparison with Yersinia
                     pseudotuberculosis

```
    TITLE (TI):              Direct Submission

L10  ANSWER 16 OF 17        GENBANK®  COPYRIGHT 2006 on STN

    TITLE (TI):              The complete genome sequence and analysis of
                             Corynebacterium diphtheriae NCTC13129
    TITLE (TI):              Direct Submission

L10  ANSWER 17 OF 17        GENBANK®  COPYRIGHT 2006 on STN

    TITLE (TI):              Complete genome sequence of the model actinomycete
                             Streptomyces coelicolor A3(2)
    TITLE (TI):              Direct Submission


=> 18 and (gpm? or pbun?)
L8 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 18 and (gpm? or pbun?)
L11           38 L8 AND (GPM? OR PBUN?)

=> dup rem l11
DUPLICATE IS NOT AVAILABLE IN 'GENBANK'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L11
L12           38 DUP REM L11 (0 DUPLICATES REMOVED)

=> d ti l12 1-38

L12  ANSWER 1 OF 38  USPATFULL on STN
TI     Novel polynucleotides

L12  ANSWER 2 OF 38  USPATFULL on STN
TI     Nucleic acid and amino acid sequences relating to Enterobacter cloacae
       for diagnostics and therapeutics

L12  ANSWER 3 OF 38  USPATFULL on STN
TI     Nucleic acid and amino acid sequences relating to streptococcus
       pneumoniae for diagnostics and therapeutics

L12  ANSWER 4 OF 38  USPATFULL on STN
TI     Recombinant mycobacteria overexpressing D-alanine ligase gene and uses
       therefore

L12  ANSWER 5 OF 38  USPATFULL on STN
TI     Streptococcus pneumoniae polynucleotides and sequences

L12  ANSWER 6 OF 38  USPATFULL on STN
TI     Novel human polynucleotides and polypeptides encoded thereby

L12  ANSWER 7 OF 38  USPATFULL on STN
TI     Nucleic acid and amino acid sequences relating to Streptococcus
       pneumoniae for diagnostics and therapeutics

L12  ANSWER 8 OF 38  USPATFULL on STN
TI     Nucleic acid and amino acid sequences relating to Enterococcus faecalis
       for diagnostics and therapeutics

L12  ANSWER 9 OF 38  USPATFULL on STN
TI     Nucleic acid sequences and expression system relating to Enterococcus
       faecium for diagnostics and therapeutics.
```

L12 ANSWER 10 OF 38 USPATFULL on STN
TI   Nucleic acid and amino acid sequences relating to Acinetobacter
      baumannii for diagnostics and therapeutics

L12 ANSWER 11 OF 38 USPATFULL on STN
TI   Novel Polynucleotides

L12 ANSWER 12 OF 38 USPATFULL on STN
TI   ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES

L12 ANSWER 13 OF 38 USPATFULL on STN
TI   STREPTOCOCCUS PNEUMONIAE POLYNUCLEOTIDES AND SEQUENCES

L12 ANSWER 14 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   The genome of Rhizobium leguminosarum has recognizable
                            core and accessory components
   TITLE (TI):   Direct Submission

L12 ANSWER 15 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   The complete genome sequence of the European
                            Francisella tularensis subspecies tularensis isolate
                            FSC 198 suggests that it is derived from the archetypal
                            laboratory strain Schu S4, originally isolated in North
                            America
   TITLE (TI):   Direct Submission

L12 ANSWER 16 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   Complete sequence of chromosome of Mycobacterium sp.
                            MCS
   TITLE (TI):   Direct Submission

L12 ANSWER 17 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   The partitioned Rhizobium etli genome: Genetic and
                            metabolic redundancy in seven interacting replicons
   TITLE (TI):   Direct Submission

L12 ANSWER 18 OF 38   ·GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   Complete Sequence of Chromosome 1 of Rhodobacter
                            sphaeroides 2.4.1
   TITLE (TI):   Direct Submission

L12 ANSWER 19 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   The Chlamydophila abortus genome sequence reveals an
                            array of variable proteins that contribute to
                            interspecies variation
   TITLE (TI):   The Chlamydophila abortus genome sequence reveals an
                            array of variable proteins that contribute to
                            interspecies variation
   TITLE (TI):   Direct Submission

L12 ANSWER 20 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   Extensive DNA inversions in the B. fragilis genome
                            control variable gene expression
   TITLE (TI):   Direct Submission

L12 ANSWER 21 OF 38   GENBANK® COPYRIGHT 2006 on STN

   TITLE (TI):   The complete genome sequence of Francisella tularensis,

TITLE (TI):   Direct Submission

L12 ANSWER 22 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete genome sequence of Yersinia pestis strain
                          91001, an isolate avirulent to humans
    TITLE (TI):   Genetics of metabolic variations between Yersinia
                          pestis biovars and the proposal of a new biovar,
                          microtus
    TITLE (TI):   Direct Submission

L12 ANSWER 23 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Genome sequence of Streptococcus mutans UA159, a
                          cariogenic dental pathogen
    TITLE (TI):   Direct Submission

L12 ANSWER 24 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Genome Sequence of Yersinia pestis KIM
    TITLE (TI):   Direct Submission

L12 ANSWER 25 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Genome sequence of Yersinia pestis, the causative agent
                          of plague
    TITLE (TI):   Annotation and evolutionary relationships of a small
                          regulatory RNA gene micF and its target ompF in
                          Yersinia species
    TITLE (TI):   Direct Submission

L12 ANSWER 26 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   The genome sequence of the food-borne pathogen
                          Campylobacter jejuni reveals hypervariable sequences
    TITLE (TI):   Re-annotation of Campylobacter jejuni NCTC11168
    TITLE (TI):   Direct Submission
    TITLE (TI):   Direct Submission

L12 ANSWER 27 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete genome sequence of Clostridium perfringens, an
                          anaerobic flesh-eater
    TITLE (TI):   Direct Submission

L12 ANSWER 28 OF 38   GENBANK® COPYRIGHT 2006 on STN

    TITLE (TI):   Complete nucleotide sequence of the prophage VT2-Sakai
                          carrying the verotoxin 2 genes of the enterohemorrhagic
                          Escherichia coli O157:H7 derived from the Sakai
                          outbreak
    TITLE (TI):   Comparative analysis of the whole set of rRNA operons
                          between an enterohemorrhagic Escherichia coli O157:H7
                          Sakai strain and an Escherichia coli K-12 strain MG1655
    TITLE (TI):   Complete nucleotide sequence of the prophage VT1-Sakai
                          carrying the Shiga toxin 1 genes of the
                          enterohemorrhagic Escherichia coli O157:H7 strain
                          derived from the Sakai outbreak
    TITLE (TI):   Complete genome sequence of enterohemorrhagic
                          Escherichia coli O157:H7 and genomic comparison with a
                          laboratory strain K-12
    TITLE (TI):   Direct Submission

L12 ANSWER 29 OF 38   GENBANK® COPYRIGHT 2006 on STN

```
     TITLE (TI):           Genomic plasticity of the causative agent of
                           melioidosis, Burkholderia pseudomallei
     TITLE (TI):           Direct Submission

L12  ANSWER 30 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Insights into the evolution of Yersinia pestis through
                           whole-genome comparison with Yersinia
                           pseudotuberculosis
     TITLE (TI):           Direct Submission

L12  ANSWER 31 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           The genome sequence of the enterobacterial
                           phytopathogen Erwinia carotovora subsp. atroseptica
                           SCRI1043 and functional genomic identification of novel
                           virulence factors
     TITLE (TI):           Direct Submission

L12  ANSWER 32 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Complete genomes of two clinical Staphylococcus aureus
                           strains: evidence for the rapid evolution of virulence
                           and drug resistance
     TITLE (TI):           Direct Submission

L12  ANSWER 33 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Deciphering the biology of Mycobacterium tuberculosis
                           from the complete genome sequence
     TITLE (TI):           Re-annotation of the genome sequence of Mycobacterium
                           tuberculosis H37Rv
     TITLE (TI):           Direct Submission

L12  ANSWER 34 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           The complete genome sequence and analysis of
                           Corynebacterium diphtheriae NCTC13129
     TITLE (TI):           Direct Submission

L12  ANSWER 35 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Genome Sequence and Comparative Analysis of the
                           Solvent-Producing Bacterium Clostridium acetobutylicum
     TITLE (TI):           Direct Submission

L12  ANSWER 36 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Complete genome sequence of the model actinomycete
                           Streptomyces coelicolor A3(2)
     TITLE (TI):           Direct Submission

L12  ANSWER 37 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Complete genome sequence of the model actinomycete
                           Streptomyces coelicolor A3(2)
     TITLE (TI):           Direct Submission

L12  ANSWER 38 OF 38        GENBANK®  COPYRIGHT 2006 on STN

     TITLE (TI):           Genome sequence of enterohaemorrhagic Escherichia coli
                           O157:H7
     TITLE (TI):           Direct Submission
```

L12   ANSWER 1 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2006:268028 USPATFULL
TITLE: Novel polynucleotides
INVENTOR(S):   Nakagawa, Satoshi, Tokyo, JAPAN
                         Mizoguchi, Hiroshi, Tokyo, JAPAN
                         Ando, Seiko, Tokyo, JAPAN
                         Hayashi, Mikiro, Tokyo, JAPAN
                         Ochiai, Keiko, Tokyo, JAPAN
                         Yokoi, Haruhiko, Tokyo, JAPAN
                         Tateishi, Naoko, Tokyo, JAPAN
                         Senoh, Akihiro, Tokyo, JAPAN
                         Ikeda, Masato, Tokyo, JAPAN
                         Ozaki, Akio, Hofu-shi, JAPAN
PATENT ASSIGNEE(S):   Kyowa Hakko Kogyo Co., Ltd., Tokyo, JAPAN (non-U.S.
                         corporation)

                              NUMBER   KIND   DATE
                         ---------------- ------ --------
PATENT INFORMATION: US 2006228712   A1   20061012
APPLICATION INFO.:   US 2004-805394   A1   20040322 (10)
RELATED APPLN. INFO.:   Division of Ser. No. US 2000-738626, filed on 18 Dec
                         2000, ABANDONED

                              NUMBER   DATE
                         ---------------- --------
PRIORITY INFORMATION: JP 1999-377484   19991216
                         JP 2000-159162   20000407
                         JP 2000-280988   20000803
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NIXON & VANDERHYE, PC, 901 NORTH GLEBE ROAD, 11TH
                         FLOOR, ARLINGTON, VA, 22203, US
NUMBER OF CLAIMS: 67
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 14357

AB   Novel polynucleotides derived from microorganisms belonging to
       coryneform bacteria and fragments thereof, polypeptides encoded by the
       polynucleotides and fragments thereof, polynucleotide arrays comprising
       the polynucleotides and fragments thereof, recording media in which the
       nucleotide sequences of the polynucleotide and fragments thereof have
       been recorded which are readable in a computer, and use of them.

L12   ANSWER 2 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2006:113827 USPATFULL
TITLE: Nucleic acid and amino acid sequences relating to
                         Enterobacter cloacae for diagnostics and therapeutics
INVENTOR(S):   Weinstock, Keith G., Westborough, MA, UNITED STATES
                         Deloughery, Craig, Medford, MA, UNITED STATES
                         Bush, David, Somerville, MA, UNITED STATES
PATENT ASSIGNEE(S):   Genome Therapeutics Corporation, Waltham, MA, UNITED
                         STATES (U.S. corporation)

                              NUMBER   KIND   DATE
                         ---------------- ------ --------
PATENT INFORMATION: US 7041814   B1   20060509
APPLICATION INFO.:   US 1999-252691   ·   19990218 (9)

                              NUMBER   DATE
                         ---------------- --------
PRIORITY INFORMATION: US 1998-94145P   19980724 (60)

```
                              US 1998-74787P    19980218 (60)
DOCUMENT TYPE:            Utility
FILE SEGMENT:            GRANTED
PRIMARY EXAMINER:        Smith, Lynette R. F.
ASSISTANT EXAMINER:      Portner, Ginny Allen
LEGAL REPRESENTATIVE:    Buchanan Ingersoll PC
NUMBER OF CLAIMS:        9
EXEMPLARY CLAIM:         1
LINE COUNT:              19563
```

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   The invention provides isolated polypeptide and nucleic acid sequences
    derived from Enterobacter cloacae that are useful in diagnosis and
    therapy of pathological conditions; antibodies against the polypeptides;
    and methods for the production of the polypeptides. The invention also
    provides methods for the detection, prevention and treatment of
    pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 3 OF 38 USPATFULL on STN
ACCESSION NUMBER: 2005:158196 USPATFULL
TITLE: Nucleic acid and amino acid sequences relating to
                         streptococcus pneumoniae for diagnostics and
                         therapeutics
INVENTOR(S):   Doucette-Stamm, Lynn A., Framingham, MA, UNITED STATES
                         Bush, David, Somerville, MA, UNITED STATES

                         NUMBER   KIND   DATE
                         ---------------- ------ --------
PATENT INFORMATION: US 2005136404   A1   20050623
APPLICATION INFO.:   US 2003-617320   A1   20030710 (10)
RELATED APPLN. INFO.:   Division of Ser. No. US 1998-107433, filed on 30 Jun
                         1998, PENDING

                         NUMBER   DATE
                         ------------------ --------
PRIORITY INFORMATION: US 1997-51553P   19970702 (60)
                         US 1998-85131P   19980512 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Robert L. Spadafora, Genome Therapeutics Corporation,
                         100 Beaver Street, Waltham, MA, 02453, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 12957
```

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB     The invention provides isolated polypeptide and nucleic acid sequences
    derived from Streptococcus pneumonia that are useful in diagnosis and
    therapy of pathological conditions; antibodies against the polypeptides;
    and methods for the production of the polypeptides. The invention also
    provides methods for the detection, prevention and treatment of
    pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.


```
L12  ANSWER 4 OF 38  USPATFULL on STN
ACCESSION NUMBER:        2004:307159  USPATFULL
TITLE:                   Recombinant mycobacteria overexpressing D-alanine
                         ligase gene and uses therefore
INVENTOR(S):             Barletta, Raul G., Lincoln, NE, UNITED STATES
                         Feng, Zhengyu, Austin, TX, UNITED STATES
PATENT ASSIGNEE(S):      The Board of Regents, University of Nebraska-Lincoln
                         (U.S. corporation)

                         NUMBER          KIND    DATE
```

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PATENT INFORMATION:   US 2004241830    A1    20041202
APPLICATION INFO.:    US 2003-738938   A1    20031217  (10)

                      NUMBER           DATE
                      ---------------- --------
PRIORITY INFORMATION: US 2002-434200P  20021217 (60)
DOCUMENT TYPE:        Utility
FILE SEGMENT:         APPLICATION
LEGAL REPRESENTATIVE: STINSON MORRISON HECKER LLP, ATTN: PATENT GROUP, 1201
                      WALNUT STREET, SUITE 2800, KANSAS CITY, MO, 64106-2150
NUMBER OF CLAIMS:     23
EXEMPLARY CLAIM:      1
NUMBER OF DRAWINGS:   7 Drawing Page(s)
LINE COUNT:           1431
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

AB   Recombinant mycobacterial strains which overproduce essential
biosynthetic enzymes of pathogenic mycobateria are provided. These
strains overproduce enzymes involved in the synthesis and incorporation
of D-alanine into mycobacterial peptidoglycan, the backbone of the
mycobacterial cell wall. These overproducing strains may be used as
reference strains in in vitro screening methods to identify
antimycobacterial agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

```
ACCESSION NUMBER:     ' 2004:38579  USPATFULL
TITLE:                Streptococcus pneumoniae polynucleotides and sequences
INVENTOR(S):          Kunsch, Charles A., Norcross, GA, UNITED STATES
                      Choi, Gil H., Rockville, MD, UNITED STATES
                      Dillon, Patrick J., Carlsbad, CA, UNITED STATES
                      Rosen, Craig A., Laytonsville, MD, UNITED STATES
                      Barash, Steven C., Rockville, MD, UNITED STATES
                      Fannon, Michael R., Silver Spring, MD, UNITED STATES
                      Dougherty, Brian A., Killingworth, CT, UNITED STATES
PATENT ASSIGNEE(S):   Human Genome Sciences, Inc., Rockville, MD, UNITED
                      STATES, 20850 (U.S. corporation)

                      NUMBER           KIND   DATE
                      ---------------- ------ --------
PATENT INFORMATION:   US 2004029118    A1    20040212
APPLICATION INFO.:    US 2002-158844   A1    20020603  (10)
RELATED APPLN. INFO.: Division of Ser. No. US 1997-961527, filed on 30 Oct
                      1997, GRANTED, Pat. No. US 6420135

                      NUMBER           DATE
                      ---------------- --------
PRIORITY INFORMATION: US 1996-29960P   19961031 (60)
DOCUMENT TYPE:        Utility
FILE SEGMENT:         APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,
                      ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:     20
EXEMPLARY CLAIM:      1
NUMBER OF DRAWINGS:   2 Drawing Page(s)
LINE COUNT:           9165
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
```

AB   The present invention provides polynucleotide sequences of the genome of
Streptococcus pneumoniae, polypeptide sequences encoded by the
polynucleotide sequences, corresponding polynucleotides and
polypeptides, vectors and hosts comprising the polynucleotides, and
assays and other uses thereof. The present invention further provides
polynucleotide and polypeptide sequence information stored on computer
readable media, and computer-based systems and methods which facilitate

its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:12955 USPATFULL
TITLE: Novel human polynucleotides and polypeptides encoded
                           thereby
INVENTOR(S):   Leach, Martin D., Madison, CT, UNITED STATES
                           Shimkets, Richard A., Guilford, CT, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004009474	A1	20040115	
APPLICATION INFO.:	US 2001-864408	A1	20010524	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-206690P	20000524 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Ivor R. Elrifi, Esq., MIintz, Levin, Cohn, Ferris,,
                           Glovsky and Popeo, P.C., One Financial Center, Boston,
                           MA, 02111
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
LINE COUNT: 21366
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB   The present invention provides ORFX, a novel isolated polypeptide, as
        well as a polynucleotide encoding ORFX and antibodies that
        immunospecifically bind to ORFX or any derivative, variant, mutant, or
        fragment of the ORFX polypeptide, polynucleotide or antibody. The
        invention additionally provides methods in which the ORFX polypeptide,
        polynucleotide and antibody are used in detection and treatment of a
        broad range of pathological states, as well as to others uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:250212 USPATFULL
TITLE: Nucleic acid and amino acid sequences relating to
                           Streptococcus pneumoniae for diagnostics and
                           therapeutics
INVENTOR(S):   Doucette-Stamm, Lynn A., Framingham, MA, United States
                           Bush, David, Somerville, MA, United States
PATENT ASSIGNEE(S):   Genome Therapeutics Corporation, Waltham, MA, United
                           States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6800744	B1	20041005	
APPLICATION INFO.:	US 1998-107433		19980630	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-85131P	19980512 (60)
	US 1997-51553P	19970702 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
ASSISTANT EXAMINER: Zhou, Shubo "Joe "
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)

LINE COUNT: 11545
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB   The invention provides isolated polypeptide and nucleic acid sequences
        derived from Streptococcus pneumonia that are useful in diagnosis and
        therapy of pathological conditions; antibodies against the polypeptides;
        and methods for the production of the polypeptides. The invention also
        provides methods for the detection, prevention and treatment of
        pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 8 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2003:240330   USPATFULL
TITLE: Nucleic acid and amino acid sequences relating to
                            Enterococcus faecalis for diagnostics and therapeutics
INVENTOR(S):   Doucette-Stamm, Lynn A., 14 Flanagan Dr., Framingham,
                            MA, United States 01701
                            Bush, David, 205 Holland St., Somerville, MA, United
                            States 02144

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6617156	B1	20030909
APPLICATION INFO.:	US 1998-134000		19980813 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-55778P	19970815 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1,5,14
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 13738
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB   The invention provides isolated polypeptide and nucleic acid sequences
        derived from Enterococcus faecalis that are useful in diagnosis and
        therapy of pathological conditions; antibodies against the polypeptides;
        and methods for the production of the polypeptides. The invention also
        provides methods for the detection, prevention and treatment of
        pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 9 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2003:169096   USPATFULL
TITLE: Nucleic acid sequences and expression system relating
                            to Enterococcus faecium for diagnostics and
                            therapeutics
INVENTOR(S):   Doucette-Stamm, Lynn A., Framingham, MA, United States
                            Bush, David, Somerville, MA, United States
PATENT ASSIGNEE(S):   Genome Therapeutics Corporation, Waltham, MA, United
                            States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6583275	B1	20030624
APPLICATION INFO.:	US 1998-107532		19980630 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-85598P	19980514 (60)
	US 1997-51571P	19970702 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Marschel, Ardin H.
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 15265
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   The invention provides isolated polypeptide and nucleic acid sequences
       derived Enterococcus faecium that are useful in diagnosis and therapy of
       pathological conditions; antibodies against the polypeptides; and
       methods for the production of the polypeptides. The invention also
       provides methods for the detection, prevention and treatment of
       pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 10 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2003:130010 USPATFULL
TITLE: Nucleic acid and amino acid sequences relating to
                         Acinetobacter baumannii for diagnostics and
                         therapeutics
INVENTOR(S):   Breton, Gary, Marlborough, MA, United States
                         Bush, David, Somerville, MA, United States
PATENT ASSIGNEE(S):   Genome Therapeutics Corporation, Waltham, MA, United
                         States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6562958	B1	20030513	
APPLICATION INFO.:	US 1999-328352		19990604	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1998-88701P	19980609	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Borin, Michael
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 16618
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   The invention provides isolated polypeptide and nucleic acid sequences
       derived from Acinetobacter mirabilis that are useful in diagnosis and
       therapy of pathological conditions; antibodies against the polypeptides;
       and methods for the production of the polypeptides. The invention also
       provides methods for the detection, prevention and treatment of
       pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 11 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2002:343879 USPATFULL
TITLE: Novel Polynucleotides
INVENTOR(S):   Nakagawa, Satoshi, Tokyo, JAPAN
                         Mizoguchi, Hiroshi, Tokyo, JAPAN
                         Ando, Seiko, Tokyo, JAPAN
                         Hayashi, Mikiro, Tokyo, JAPAN
                         Ochiai, Keiko, Tokyo, JAPAN
                         Yokoi, Haruhiko, Tokyo, JAPAN
                         Tateishi, Naoko, Tokyo, JAPAN
                         Senoh, Akihiro, Tokyo, JAPAN

Ikeda, Masato, Tokyo, JAPAN
Ozaki, Akio, Hofu-shi, JAPAN

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002197605	A1	20021226
APPLICATION INFO.:	US 2000-738626	A1	20001218 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1999-377484	19991216
	JP 2000-159162	20000407
	JP 2000-280988	20000803

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	NIXON & VANDERHYE P.C., 8th Floor, 1100 North Glebe Road, Arlington, VA, 22201
NUMBER OF CLAIMS:	68
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	4 Drawing Page(s)
LINE COUNT:	13673

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   Novel polynucleotides derived from microorganisms belonging to
      coryneform bacteria and fragments thereof, polypeptides encoded by the
      polynucleotides and fragments thereof, polynucleotide arrays comprising
      the polynucleotides and fragments thereof, recording media in which the
      nucleotide sequences of the polynucleotide and fragments thereof have
      been recorded which are readable in a computer, and use of them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 12 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2002:221971 USPATFULL
TITLE: ENTEROCOCCUS FAECALIS POLYNUCLEOTIDES AND POLYPEPTIDES
INVENTOR(S):   KUNSCH, CHARLES A., ATLANTA, GA, UNITED STATES
                       DILLON, PATRICK J., CARLSBAD, CA, UNITED STATES
                       BARASH, STEVEN, ROCKVILLE, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002120116	A1	20020829
APPLICATION INFO.:	US 1998-70927	A1	19980504 (9)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:	18
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	2 Drawing Page(s)
LINE COUNT:	13315

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   The present invention provides polynucleotide sequences of the genome of
      Enterococcus faecalis, polypeptide sequences encoded by the
      polynucleotide sequences, corresponding polynucleotides and
      polypeptides, vectors and hosts comprising the polynucleotides, and
      assays and other uses thereof. The present invention further provides
      polynucleotide and polypeptide sequence information stored on computer
      readable media, and computer-based systems and methods which facilitate
      its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12   ANSWER 13 OF 38   USPATFULL on STN
ACCESSION NUMBER: 2002:55159   USPATFULL
TITLE: STREPTOCOCCUS PNEUMONIAE POLYNUCLEOTIDES AND SEQUENCES

INVENTOR(S):   KUNSCH, CHARLES A., GAITHERSBURG, MD, UNITED STATES
                                 CHOI, GIL H., ROCKVILLE, MD, UNITED STATES
                                 DILLON, PATRICK J., CARLSBAD, CA, UNITED STATES
                                 ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES
                                 BARASH, STEVEN C., ROCKVILLE, MD, UNITED STATES
                                 FANNON, MICHAEL R., SILVER SPRING, MD, UNITED STATES
                                 DOUGHERTY, BRIAN A., MT. AIRY, MD, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002032323	A1	20020314	
	US 6420135	B2	20020716	
APPLICATION INFO.:	US 1997-961527	A1	19971030	(8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-29960P	19961031 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,
                        ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 7752

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB   The present invention provides polynucleotide sequences of the genome of
        Streptococcus pneumoniae, polypeptide sequences encoded by the
        polynucleotide sequences, corresponding polynucleotides and
        polypeptides, vectors and hosts comprising the polynucleotides, and
        assays and other uses thereof. The present invention further provides
        polynucleotide and polypeptide sequence information stored on computer
        readable media, and computer-based systems and methods which facilitate
        its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his full

    (FILE 'HOME' ENTERED AT 13:53:33 ON 12 OCT 2006)

    INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
    AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
    CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
    DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 13:54:08 ON 12 OCT 2006
            SEA DDL? OR (ALANI?(S)LIGAS?)
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        18   FILE ADISCTI
         1   FILE ADISINSIGHT
        30   FILE AGRICOLA
        13   FILE ANABSTR
         7   FILE ANTE
         2   FILE AQUALINE
         3   FILE AQUASCI
        51   FILE BIOENG
       654   FILE BIOSIS
        72   FILE BIOTECHABS
        72   FILE BIOTECHDS
       250   FILE BIOTECHNO
       105   FILE CABA
       715   FILE CAPLUS
        31   FILE CEABA-VTB
        16   FILE CIN
        17   FILE CONFSCI

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        17    FILE CROPU
         6    FILE DDFB
        72    FILE DDFU
       594    FILE DGENE
        79    FILE DISSABS
         6    FILE DRUGB
         1    FILE DRUGMONOG2
       104    FILE DRUGU
        15    FILE EMBAL
       594    FILE EMBASE
       344    FILE ESBIOBASE
         6    FILE FROSTI
        13    FILE FSTA
      1795    FILE GENBANK
         5    FILE HEALSAFE
       258    FILE IFIPAT
         3    FILE IMSPRODUCT
         2    FILE IMSRESEARCH
        81    FILE JICST-EPLUS
       369    FILE LIFESCI
       588    FILE MEDLINE
        84    FILE NTIS
       608    FILE PASCAL
         3    FILE PHAR
         1    FILE PHARMAML
         7    FILE PHIN
       701    FILE PROMT
         1    FILE PROUSDDR
        10    FILE RDISCLOSURE
       808    FILE SCISEARCH
       321    FILE TOXCENTER
      2690    FILE USPATFULL
       308    FILE USPAT2
         1    FILE VETU
         5    FILE WATER
       185    FILE WPIDS
         1    FILE WPIFV
       185    FILE WPINDEX
        11    FILE IPA
       234    FILE NLDB
L1           QUE DDL? OR (ALANI?(S) LIGAS?)
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             D RANK

     FILE 'USPATFULL, GENBANK, SCISEARCH, CAPLUS, PROMT, BIOSIS, PASCAL,
     EMBASE, MEDLINE, LIFESCI' ENTERED AT 13:56:02 ON 12 OCT 2006
L2        9522 SEA DDL? OR (ALANI?(S) LIGAS?)
L3         501 SEA L2 AND (TUBERCULOS? OR SMEGMAT?)
L4         399 SEA L3 AND (VECTOR? OR PLASMID?)
L5          58 SEA L4 AND GPM?
L6          58 DUP REM L5 (0 DUPLICATES REMOVED)
             D TI L6 1-58
L7         172 SEA L1(S)(TUBERCULOS? OR SMEGMAT?)
L8          83 SEA L7 (S) (VECTOR? OR PLASMID?)
L9          17 SEA L8(S)(GPM?)
L10         17 DUP REM L9 (0 DUPLICATES REMOVED)
             D TI L10 1-17
L11         38 SEA L8 AND (GPM? OR PBUN?)
L12         38 DUP REM L11 (0 DUPLICATES REMOVED)
             D TI L12 1-38
             D IBIB ABS L12 1-13


     FILE HOME
```

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NiceZyme View of ENZYME: EC 6.3.2.4

Official Name
D-alanine--D-alanine ligase.

Alternative Name(s)
Alanine:alanine ligase (ADP-forming).
Alanylalanine synthetase.
D-Ala-D-Ala synthetase.
D-alanyl-D-alanine synthetase.
D-alanylalanine synthetase.

Reaction catalysed
ATP + 2 D-alanine <=> ADP + phosphate + D-alanyl-D-alanine

Comment(s)
Involved with EC 6.3.2.7 or EC 6.3.2.13, EC 6.3.2.8, EC 6.3.2.9 and EC 6.3.2.10 in the synthesis of a cell-wall peptide.

Cross-references	
Biochemical Pathways; map number(s)	N3
PROSITE	PDOC00659
BRENDA	6.3.2.4
PUMA2	6.3.2.4
PRIAM enzyme-specific profiles	6.3.2.4
KEGG Ligand Database for Enzyme Nomenclature	6.3.2.4
IUBMB Enzyme Nomenclature	6.3.2.4
IntEnz	6.3.2.4
MEDLINE	Find literature relating to 6.3.2.4
MetaCyc	6.3.2.4

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Q81D33, DDLA_BACCR;  Q89GA7, DDLA_BRAJA;  Q8YHR9, DDLA_BRUME;
Q8G044, DDLA_BRUSU;  Q7NV72, DDLA_CHRVO;  Q8XKS9, DDLA_CLOPE;
Q897P8, DDLA_CLOTE;  P0A6J9, DDLA_ECO57;  Q8FKE3, DDLA_ECOL6;
P0A6J8, DDLA_ECOLI;  Q9HWI0, DDLA_PSEAE;  Q88EV6, DDLA_PSEPK;
Q87XJ6, DDLA_PSESM;  Q98JS0, DDLA_RHILO;  P0A1F1, DDLA_SALTI;
P0A1F0, DDLA_SALTY;  P0A6K0, DDLA_SHIFL;  Q8PDW3, DDLA_XANCP;
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Q898Z5, DDLB_CLOTE;  Q8X9Y6, DDLB_ECO57;  Q8FL63, DDLB_ECOL6;
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UniProtKB/Swiss-Prot

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Q8KCR8, DDL_CHLTE;	Q97F58, DDL_CLOAB;	Q8FPQ9, DDL_COREF;
Q8NQV2, DDL_CORGL;	Q83BZ9, DDL_COXBU;	Q9RXF1, DDL_DEIRA;
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Q7V0F6, DDL_PROMP;	Q8XVI9, DDL_RALSO;	Q92NM4, DDL_RHIME;
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Q9Z701, MUDD_CHLPN;	O84767, MUDD_CHLTR;	

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